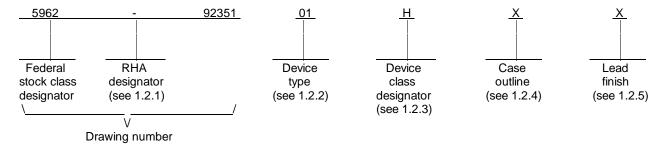
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DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE			DRAWING APPROVAL DATE 92-10-15				SIZE		CAG	E COD	)E									
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#### 1. SCOPE

- 1.1 <u>Scope</u>. This drawing forms a part of a one part one part number documentation system (see 6.6 herein). This drawing describes device requirements for hybrid microcircuits to be processed in accordance with MIL-H-38534. Two product assurance classes consisting of military high reliability (device class H) and space application (device class K), and a choice of case outlines and lead finishes are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance (RHA) levels are reflected in the PIN.
  - 1.2 PIN. The PIN shall be as shown in the following example:



- 1.2.1 RHA designator. Device classes H and K RHA marked devices shall meet the MIL-H-38534 specified RHA levels and shall be marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.
  - 1.2.2 <u>Device type(s)</u>. The device type(s) shall identify the circuit function as follows:

Device type	Generic number	Circuit function
01	AHF2815D/CH	DC/DC converter, 12W, ±15 V output.

1.2.3 <u>Device class designator</u>. The device class designator shall be a single letter identifying the product assurance level as follows:

<u>Device class</u> <u>Device requirements documentation</u>

H or K Certification and qualification to MIL-H-38534

1.2.4 Case outline(s). The case outline(s) shall be as designated in MIL-STD-1835 and as follows:

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
Χ	See figure 1	8	Dual-in-line
Z	See figure 1	8	Flange package

1.2.5 <u>Lead finish</u>. The lead finish shall be as specified in MIL-H-38534 for classes H and K. Finish letter "X" shall not be marked on the microcircuit or its packaging. The "X" designation is for use in specifications when lead finishes A, B, and C are considered acceptable and interchangeable without preference.

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	1.3	Absolute	maximum	ratings.	1/
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Input voltage range ...... -0.5 V dc to +50 V dc 6 W +300°C

-65°C to +150°C

1.4 Recommended operating conditions.

Input voltage range ..... +16 V dc to +40 V dc Output power <u>2</u>/ <u>3</u>/ ..... ≤ 12 W Case operating temperature range (T<sub>C</sub>) ..... -55°C to +125°C

# 2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbook. Unless otherwise specified, the following specification, standards, and handbook of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein.

#### **SPECIFICATION**

**MILITARY** 

MIL-H-38534 - Hybrid Microcircuits, General Specification for.

#### **STANDARDS**

**MILITARY** 

MIL-STD-480 - Configuration Control-Engineering Changes, Deviations and Waivers.

MIL-STD-883 - Test Methods and Procedures for Microelectronics.

MIL-STD-1835 - Microcircuit Case Outlines.

### HANDBOOK

**MILITARY** 

MIL-HDBK-780 - Standardized Military Drawings.

(Copies of the specification, standards, and handbook required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing shall take precedence.

Up to 90 percent of full power is available from either output provided the total output power does not exceed 12 watts.

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Stresses above the absolute maximum rating may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.

Derate output power linearly above case temperature +125° C to 0 at +135° C.

- 3. REQUIREMENTS
- 3.1 Item requirements. The individual item requirements shall be in accordance with MIL-H-38534 and as specified herein.
- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-H-38534 and herein.
  - 3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.4 herein and figure 1.
  - 3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 2.
  - 3.2.3 Block diagram. The block diagram shall be as specified on figure 3.
- 3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified operating temperature range.
- 3.4 <u>Electrical test requirements</u>. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are described in table I.
- 3.5 <u>Marking</u>. Marking shall be in accordance with MIL-H-38534. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked as listed in QML-38534.
- 3.6 <u>Manufacturer eligibility</u>. In addition to the general requirements of MIL-H-38534, the manufacturer of the part described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, produced on the certified line, for each device type listed herein. The data should also include a summary of all parameters manually tested, and for those which, if any, are guaranteed. This data shall be maintained under document revision level control by the manufacturer and be made available to the preparing activity (DESC-EC) upon request.
- 3.7 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance submitted to DESC-EC shall affirm that the manufacturer's product meets the requirements of MIL-H-38534 and the requirements herein.
- 3.8 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-H-38534 shall be provided with each lot of microcircuits delivered to this drawing.
  - 4. QUALITY ASSURANCE PROVISIONS
  - 4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-H-38534.
  - 4.2 Screening. Screening shall be in accordance with MIL-H-38534. The following additional criteria shall apply:
    - a. Burn-in test, method 1015 of MIL-STD-883.
      - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DESC-EC or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015.
      - (2) T<sub>C</sub> as specified in accordance with table I of method 1015 of MIL-STD-883.
    - b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

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		TABLE I. <u>Electrical perforn</u>	nance character	ISUCS.			
Test	Symbol	Conditions $-55^{\circ}$ C $\leq$ T $\leq$ +125 $^{\circ}$ C	Group A subgroups	Device types	Lim	its	Unit
		V <sub>IN</sub> = 28 V dc ±5%, C <sub>L</sub> = 0 unless otherwise specified			Min	Max	
Output voltage	VOUT	I <sub>OUT</sub> = 0	1	01	±14.85	±15.15	V
			2,3		±14.70	±15.30	
Output current <u>1</u> / <u>2</u> /	lout	V <sub>IN</sub> = 16, 28, and 40 V dc, each output	1,2,3	01	80	720	mA
Output ripple 3/ voltage	V <sub>RIP</sub>	V <sub>IN</sub> = 16, 28, and 40 V dc, B.W. = 20 Hz to 2 MHz	1,2,3	01		60	mV p-p
Line regulation <u>4</u> /	VR <sub>LINE</sub>	V <sub>IN</sub> = 16, 28, and 40 V dc, I <sub>OUT</sub> = 0, 400, and 800 mA	1,2,3	01		35	mV
Load regulation <u>4</u> /	VR <sub>LOAD</sub>	V <sub>IN</sub> = 16, 28, and 40 V dc, I <sub>OUT</sub> = 0, 400, and 800 mA	1,2,3	01		35	mV
Cross regulation <u>5</u> /	VRCROS	10 percent to 90 percent load change each output	1,2,3	01		3.0	%
Input current	I <sub>IN</sub>	I <sub>OUT</sub> = 0, inhibit (pin 1) tied to input return (pin 7)	1,2,3	01		12	mA
		I <sub>OUT</sub> = 0, inhibit (pin 1) = open				60	
Input ripple 3/ current 4/	I <sub>RIP</sub>	I <sub>OUT</sub> = 800 mA, B.W. = 20 Hz to 2 MHz	1,2,3	01		50	mA p-p
Efficiency <u>4</u> /	E <sub>FF</sub>	I <sub>OUT</sub> = 800 mA	1,3	01	78		%
			2		74		
Isolation	ISO	Input to output or any pin to case (except pin 6) at 500 V dc, T <sub>C</sub> = +25°C	1	01	100		МΩ
Capacitive <u>6</u> / <u>7</u> / load	CL	No effect on dc performance, T <sub>C</sub> = +25°C, total for both outputs	4	01		200	μF
Power dissipation	PD	Overload <u>8</u> /	1,2,3	01		6	W
load fault		Short circuit				2.5	

See footnotes at end of table.

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TABLE I. <u>Electrical performance characteristics</u> - Continued.

Test	Symbol	Conditions -55° C ≤ T <sub>C</sub> ≤ +125° C	Group A Subgroups	Device types	Limits		Unit
		V <sub>IN</sub> = 28 V dc ±5%, C <sub>L</sub> = 0 unless otherwise specified	Cabgicapo	урос	Min	Max	
Switching frequency 4/	Fs	I <sub>OUT</sub> = 800 mA	4,5,6	01	500	600	kHz
Output response to step transient 4/ load	VO <sub>TLOAD</sub>	400 mA to/from 800 mA	4,5,6	01	-200	+200	mV pk
step transient <u>4</u> / load changes <u>9</u> /		0 mA to/from 400 mA	4,5,6	01	-800	+800	
Recovery time, step	TT <sub>LOAD</sub>	400 mA to/from 800 mA	4,5,6	01		70	μS
transient load changes <u>4</u> / <u>9</u> / <u>10</u> /		0 mA to/from 400 mA	4,5,6	01		2000	
Output response 4/ transient step 7/ line changes 11/	VOTLINE	Input step from/to 16 to 40 V dc, I <sub>OUT</sub> = 800 mA	4,5,6	01	-750	+750	mV pk
Recovery time 4/ transient step 7/ line changes 10/ 11/	TT <sub>LINE</sub>	Input step from/to 16 to 40 V dc, I <sub>OUT</sub> = 800 mA	4,5,6	01		1200	μS
Turn on overshoot 4/	VTonOS	I <sub>OUT</sub> = 0 and 800 mA	4,5,6	01		750	mV pk
Turn on delay <u>4/</u> <u>12</u> /	T <sub>onD</sub>	I <sub>OUT</sub> = 0 and 800 mA	4,5,6	01		25	ms
Load fault 7/recovery	Tr <sub>LF</sub>		4,5,6	01		25	ms

See footnotes at end of table.

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### TABLE I. Electrical performance characteristics - Continued.

- 1/ Parameter guaranteed by line load, and cross regulation tests.
- 2/ Up to 90 percent of full power is available from either output provided the total output does not exceed 12 W.
- 3/ Bandwidth guaranteed by design. Tested for 20 kHz to 2 MHz.
- 4/ Load current split equally between +VOUT and -VOUT.
- 5/ 1.2 watt load on output under test, 1.2 watt to 10.8 watt load change on other output.
- Capacitive load may be any value from 0 to the maximum limit without compromising dc performance. A capacitive load in excess of the maximum limit will not disturb loop stability but may interfere with the operation of the load fault detection circuitry, appearing as a short circuit during turn-on.
- Parameter shall be tested as part of design characterization and after design or process changes. Thereafter, parameters shall be guaranteed to the limits specified in table I.
- An overload is that condition with a load in excess of the rated load but less than that necessary to trigger the short circuit protection and is the condition of maximum power dissipation.
- Load step transition time between 2 and 10 microseconds.
- Recovery time is measured from the initiation of the transient to where VOLIT has returned to within ±1 percent of VOLIT at 50 percent load.
- Input step transition time between 2 and 10 microseconds. <u>11</u>/
- Turn-on delay time measurement is for either a step application of power at the input or the removal of a ground signal from the inhibit pin (pin 1) while power is applied to the input.

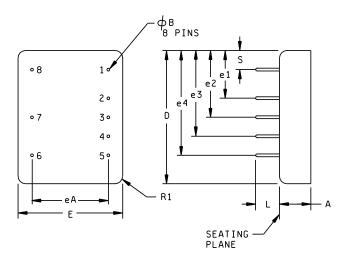
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# Case outline X



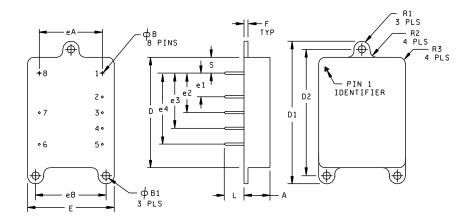
Symbol	Millimeters		Inches	
	Minimum	Maximum	Minimum	Maximum
Α		8.38		0.330
⊘B	0.64	0.89	0.025	0.035
D	36.70	36.96	1.445	1.455
Е	28.32	28.58	1.115	1.125
eA	20.19	20.45	0.795	0.805
e1	12.70	12.95	0.500	0.510
e2	17.78	18.03	0.700	0.710
e3	22.86	23.11	0.900	0.910
e4	27.94	28.19	1.100	1.110
L	6.35	6.86	0.250	0.270
R1	2.03	2.54	0.080	0.100
S	5.08	5.33	0.200	0.210

FIGURE 1. Case outline(s).

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# Case outline Z



Symbol	Millimeters		Inc	hes
	Minimum	Maximum	Minimum	Maximum
Α		8.38		0.330
øB	0.64	0.89	0.025	0.035
B1	2.51	2.77	0.099	0.109
D	36.70	36.96	1.445	1.455
D1	48.01	48.51	1.890	1.910
D2	42.93	43.43	1.690	1.710
e1	7.37	7.87	0.290	0.310
e2	12.45	12.95	0.490	0.510
e3	17.53	18.03	0.690	0.710
e4	22.61	23.11	0.890	0.910
Е	28.32	28.58	1.115	1.125
EA	20.07	20.57	0.790	0.810
EB	23.11	23.62	0.910	0.930
F	1.22	1.52	0.048	0.060
L	6.35	6.86	0.250	0.270
R1	2.29	2.79	0.090	0.110
R2	2.92	3.43	0.115	0.135
R3	2.03	2.54	0.080	0.100
S	8.13	8.64	0.320	0.340

# NOTES:

- 1. The U.S. government preferred system of measurement is the metric SI. This case outline was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
- 2. Case outline X, device weight 30 grams maximum.
- 3. Case outline Z, device weight 38 grams maximum.

FIGURE 1. Case outlines - Cotinued.

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Device types	01	
Case outline	X and Z	
Terminal number	Terminal symbol	
1	Inhibit input	
2	Positive output	
3	Output return	
4	Negative output	
5	No connection	
6	Case ground	
7	Input return	
8	Input	

FIGURE 2. <u>Terminal connections</u>.

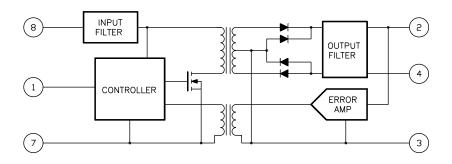


FIGURE 3. Block diagram.

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TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accrdance with MIL-H-38534, group A test table)
Interim electrical parameters	
Final electrical test parameters	1*, 2, 3, 4, 5, 6
Group A test requirements	1, 2, 3, 4, 5, 6
Group C end-point electrical parameters	1, 4
Group E end-point electrical parameters for RHA devices	Subgroups ** (in accordance with method 5005, group A test table)

- \* PDA applies to subgroup 1.
- \*\* When applicable to this standardized military drawing, the subgroups shall be defined.
- 4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with MIL-H-38534 and as specified herein.
- 4.3.1 Group A inspection. Group A inspection shall be in accordance with MIL-H-38534 and as follows:
  - a. Tests shall be as specified in table II herein.
  - b. Subgroups 7, 8, 9, 10, and 11 shall be omitted.
- 4.3.2 Group B inspection. Group B inspection shall be in accordance with MIL-H-38534.
- 4.3.3 Group C inspection. Group C inspection shall be in accordance with MIL-H-38534 and as follows:
  - a. End-point electrical parameters shall be as specified in table II herein.
  - b. Steady-state life, method 1005 of MIL-STD-883.
    - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DESC-EC or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005.
    - (2)  $T_C$  as specified in accordance with table I of method 1005 of MIL-STD-883.
    - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
- 4.3.4 Group D inspection. Group D inspection shall be in accordance with MIL-H-38534.

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- 4.3.5 <u>Group E inspection</u>. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5 herein). RHA levels for device classes H and K shall be M, D, R, and H. RHA quality conformance inspection sample tests shall be performed at the RHA level specified in the acquisition document.
  - a. RHA tests for device classes H and K for levels M, D, R, and H shall be performed through each level to determine at what levels the devices meet the RHA requirements. These RHA tests shall be performed for initial qualification and after design or process changes which may affect the RHA performance of the device.
  - b. End-point electrical parameters shall be as specified in table II herein.
  - c. Prior to total dose irradiation, each selected sample shall be assembled in its qualified package. It shall pass the specified group A electrical parameters in table I for subgroups specified in table II herein.
  - d. For device classes H and K, the devices shall be subjected to radiation hardness assured tests as specified in MIL-H-38534 for RHA level being tested, and meet the postirradiation end-point electrical parameter limits as defined in table I at  $T_{\Delta} = +25^{\circ}$  C ±5 percent, after exposure.
  - e. Prior to and during total dose irradiation testing, the devices shall be biased to establish a worst case condition as specified in the radiation exposure circuit.
  - f. For device classes H and K, subgroups 1 and 2 in table V, method 5005 of MIL-STD-883 shall be tested as appropriate for device construction.
  - g. When specified in the purchase order or contract, a copy of the RHA delta limits shall be supplied.
  - 5. PACKAGING
  - 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-H-38534.
  - 6. NOTES
- 6.1 <u>Intended use</u>. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.
- 6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.
- 6.3 <u>Configuration control of SMD's</u>. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-481 using DD Form 1693, Engineering Change Proposal (Short Form).
- 6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DESC-EC, telephone (513) 296-6047.
  - 6.5 Comments. Comments on this drawing should be directed to DESC-EC, Dayton, Ohio 45444, or telephone (513) 296-5373.

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6.6 One part - one part number system. The one part - one part number system described below has been developed to allow for transitions between identical generic devices covered by the four major microcircuit requirements documents (MIL-M-38510, MIL-H-38534, MIL-I-38535, and 1.2.1 of MIL-STD-883) without the necessity for the generation of unique PIN's. The four military requirements documents represent different class levels, and previously when a device manufacturer upgraded military product from one class level to another, the benefits of the upgraded product were unavailable to the Original Equipment Manufacturer (OEM), that was contractually locked into the original unique PIN. By establishing a one part number system covering all four documents, the OEM can acquire to the highest class level available for a given generic device to meet system needs without modifying the original contract parts selection criteria.

Military documentation format	Example PIN under new system	Manufacturing source listing	Document <u>listing</u>
New MIL-M-38510 Military Detail Specifications (in the SMD format)	5962-XXXXXZZ(B or S)YY (Part 1 or 2)	QPL-38510	MIL-BUL-103
New MIL-H-38534 Standardized Military Drawings	5962-XXXXXZZ(H or K)YY	QML-38534	MIL-BUL-103
New MIL-I-38535 Standardized Military Drawings	5962-XXXXXZZ(Q or V)YY	QML-38535	MIL-BUL-103
New 1.2.1 of MIL-STD-883 Standardized Military Drawings	5962-XXXXXZZ(M)YY	MIL-BUL-103	MIL-BUL-103

6.7 <u>Sources of supply for device classes H and K</u>. Sources of supply for device classes H and K are listed in QML-38534. The vendors listed in QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DESC-EC and have agreed to this drawing.

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#### STANDARDIZED MILITARY DRAWING SOURCE APPROVAL BULLETIN

DATE: 95-04-11

Approved sources of supply for SMD 5962-92351 are listed below for immediate acquisition only and shall be added to QML-38534 during the next revision. QML-38534 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DESC-EC. This bulletin is superseded by the next dated revision of QML-38534.

Standard_microcircuit drawing PIN	Vendor CAGE number	Vendor similar PIN <u>1/</u>
5962-9235101HXX	52467	AHF2851D/CH
5962-9235101HZX	52467	AHF2851DF/CH

1/ <u>Caution</u>. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

Vendor CAGE number

52467

Vendor name and address

Advanced Analog 2270 Martin Avenue Santa Clara, CA 95050-2781

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in this information bulletin.